

**Exhibit 300: Capital Asset Plan and Business Case Summary****Part I: Summary Information And Justification (All Capital Assets)****Section A: Overview (All Capital Assets)**

1. Date of Submission: 1/7/2008
2. Agency: Department of Commerce
3. Bureau: Noaa (Nos)
4. Name of this Capital Asset: NOAA/NOS/ Geodetic Support System
5. Unique Project (Investment) Identifier: (For IT investment only, see section 53. For all other, use agency ID system.) 006-48-01-15-01-3403-00
6. What kind of investment will this be in FY2009? (Please NOTE: Investments moving to O&M in FY2009, with Planning/Acquisition activities prior to FY2009 should not select O&M. These investments should indicate their current status.) Operations and Maintenance
7. What was the first budget year this investment was submitted to OMB? FY2002
8. Provide a brief summary and justification for this investment, including a brief description of how this closes in part or in whole an identified agency performance gap:  
  
This investment is an integral part of NOAA's Continuously Operating Reference Stations (CORS) program. The CORS program coordinates and provides models and tools in support of a network of Global Positioning System (GPS) base stations that provide GPS measurements for 3-dimensional positioning services throughout the United States and its territories.  
  
Surveyors, GIS professionals, engineers, scientists and others can apply CORS data to position points in which GPS data have been collected. The CORS system enables positioning accuracies that approach a few centimeters relative to the National Spatial Reference System (NSRS), both horizontally and vertically.  
  
This investment is directly linked to the Geodesy Program's GPRA measure. This measure indicates what percentage of U.S. counties demonstrate substantially or fully enabled positioning capacity that is consistent with the National Spatial Reference System, with horizontal and vertical coordinates meeting prescribed levels of accuracy to the cm level. A key indicator of county positioning capacity is Online Positioning User Service (OPUS) use in that county. Through OPUS, GPS users submit their data to NOAA via the internet, whereby the data file is processed with respect to three CORS sites and allows GPS users to receive a position via email that has centimeter level positioning accuracy.  
  
The CORS system benefits from a multi-purpose cooperative endeavor involving many government, academic, commercial and private organizations. New sites are evaluated for inclusion according to established criteria. The CORS system currently has over 1175 ground based stations that record GPS data on a continuous basis.
9. Did the Agency's Executive/Investment Committee approve this request? Yes
  - a. If "yes," what was the date of this approval? 1/1/2002
10. Did the Project Manager review this Exhibit? Yes
12. Has the agency developed and/or promoted cost effective, energy-efficient and environmentally sustainable techniques or practices for this project? Yes
  - a. Will this investment include electronic assets (including computers)? Yes
  - b. Is this investment for new construction or major retrofit of a Federal building or facility? (answer applicable to non-IT assets only) No
    1. If "yes," is an ESPC or UESC being used to help fund this investment?
    2. If "yes," will this investment meet sustainable design principles?
    3. If "yes," is it designed to be 30% more energy efficient than relevant code?

13. Does this investment directly support one of the PMA initiatives? Yes

If "yes," check all that apply:

Budget Performance Integration

a. Briefly and specifically describe for each selected how this asset directly supports the identified initiative(s)? (e.g. If E-Gov is selected, is it an approved shared service provider or the managing partner?)

CORS is directly linked to the Geodesy Program's GPRA measure, which was listed as one of the outcome measures in the 2006 Navigational Services PART. The PART is a major initiative within the PMA's Budget Performance Integration (BPI). This GPRA measure indicates what percentage of US counties demonstrate substantially or fully enabled positioning capacity. Online Positioning User Service (OPUS) use in each county is a key indicator for that measure.

14. Does this investment support a program assessed using the Program Assessment Rating Tool (PART)? (For more information about the PART, visit [www.whitehouse.gov/omb/part](http://www.whitehouse.gov/omb/part).) Yes

a. If "yes," does this investment address a weakness found during a PART review? No

b. If "yes," what is the name of the PARTed program? Navigation Services, 2006 PART

c. If "yes," what rating did the PART receive? Moderately Effective

15. Is this investment for information technology? Yes

If the answer to Question 15 is "Yes," complete questions 16-23 below. If the answer is "No," do not answer questions 16-23.

For information technology investments only:

16. What is the level of the IT Project? (per CIO Council PM Guidance) Level 2

17. What project management qualifications does the Project Manager have? (per CIO Council PM Guidance)

(1) Project manager has been validated as qualified for this investment

18. Is this investment or any project(s) within this investment identified as "high risk" on the Q4 - FY 2007 agency high risk report (per OMB Memorandum M-05-23)

No

19. Is this a financial management system?

No

a. If "yes," does this investment address a FFIA compliance area?

No

1. If "yes," which compliance area:

2. If "no," what does it address?

b. If "yes," please identify the system name(s) and system acronym(s) as reported in the most recent financial systems inventory update required by Circular A-11 section 52

20. What is the percentage breakout for the total FY2009 funding request for the following? (This should total 100%)

Hardware	8
Software	0
Services	62
Other	30

21. If this project produces information dissemination products for the public, are these products published to the Internet in conformance with OMB Memorandum 05-04 and included in your agency inventory, schedules and priorities? Yes

0213. Are the records produced by this investment appropriately scheduled with the National Archives and Records Administration's approval?

No

Question 24 must be answered by all Investments:

24. Does this investment directly support one of the GAO High Risk Areas? No

## Section B: Summary of Spending (All Capital Assets)

1. Provide the total estimated life-cycle cost for this investment by completing the following table. All amounts represent

budget authority in millions, and are rounded to three decimal places. Federal personnel costs should be included only in the row designated "Government FTE Cost," and should be excluded from the amounts shown for "Planning," "Full Acquisition," and "Operation/Maintenance." The "TOTAL" estimated annual cost of the investment is the sum of costs for "Planning," "Full Acquisition," and "Operation/Maintenance." For Federal buildings and facilities, life-cycle costs should include long term energy, environmental, decommissioning, and/or restoration costs. The costs associated with the entire life-cycle of the investment should be included in this report.

<b>Table 1: SUMMARY OF SPENDING FOR PROJECT PHASES (REPORTED IN MILLIONS)</b>				
(Estimates for BY+1 and beyond are for planning purposes only and do not represent budget decisions)				
	<b>PY-1 and earlier</b>	<b>PY 2007</b>	<b>CY 2008</b>	<b>BY 2009</b>
Planning:	0.03	0	0	0
Acquisition:	0.97	0	0	0
Subtotal Planning & Acquisition:	1.00	0	0	0
Operations & Maintenance:	4.195	1.125	1.2	1.275
TOTAL:	5.195	1.125	1.2	1.275
<b>Government FTE Costs should not be included in the amounts provided above.</b>				
Government FTE Costs	2.6	0.5	0.52	0.54
Number of FTE represented by Costs:	24	5	5	5

Note: For the multi-agency investments, this table should include all funding (both managing partner and partner agencies). Government FTE Costs should not be included as part of the TOTAL represented.

2. Will this project require the agency to hire additional FTE's? No

a. If "yes," How many and in what year?

### **Section C: Acquisition/Contract Strategy (All Capital Assets)**

1. Complete the table for all (including all non-Federal) contracts and/or task orders currently in place or planned for this investment. Total Value should include all option years for each contract. Contracts and/or task orders completed do not need to be included.

Exhibit 300: NOAA/NOS/ Geodetic Support System (Revision 15)

Contracts/Task Orders Table:															* Costs in millions	
Contract or Task Order Number	Type of Contract/ Task Order	Has the contract been awarded (Y/N)	If so what is the date of the award? If not, what is the planned award date?	Start date of Contract/ Task Order	End date of Contract/ Task Order	Total Value of Contract/ Task Order (\$M)	Is this an Interagency Acquisition ? (Y/N)	Is it performance based? (Y/N)	Competitively awarded? (Y/N)	What, if any, alternative financing option is being used? (ESPC, UESC, EUL, N/A)	Is EVM in the contract? (Y/N)	Does the contract include the required security & privacy clauses? (Y/N)	Name of CO	CO Contact information (phone/email)	Contracting Officer Certification Level (Level 1,2,3,N/A)	If N/A, has the agency determined the CO assigned has the competencies and skills necessary to support this acquisition ? (Y/N)
DG133C-06-NC-0870	T&M	Yes	7/1/2006	7/1/2006	7/1/2010	1.413963	No	Yes	Yes	NA	No	Yes		Mitchell.J.Ross@noaa.gov		

2. If earned value is not required or will not be a contract requirement for any of the contracts or task orders above, explain why:

3. Do the contracts ensure Section 508 compliance?

Yes

a. Explain why:

The Department of Commerce and NOAA Contracting Offices require the inclusion of Section 508 compliance language in the statement of work for all IT development service contracts. In order to procure all COTS equipment and software, requestors are required to include with their purchase order or file the Government purchase card invoices as well as the vendors statement of compliance (Voluntary Product Assessability Template VPAT).

4. Is there an acquisition plan which has been approved in accordance with agency requirements?

No

a. If "yes," what is the date?

b. If "no," will an acquisition plan be developed?

No

1. If "no," briefly explain why:

More than 95% of the 1,175 sites currently contained in the CORS network are owned and operated by approximately 200 other organizations. The few sites that are owned and/or operated by NOAA's National Geodetic Survey were installed for various research activities sponsored by NOAA and/or NASA or for various international activities sponsored by the Department of State or the Department of Defense. It is expected that the CORS network will continue to grow in this manner.

### Section D: Performance Information (All Capital Assets)

In order to successfully address this area of the exhibit 300, performance goals must be provided for the agency and be linked to the annual performance plan. The investment must discuss the agency's mission and strategic goals, and performance measures (indicators) must be provided. These goals need to map to the gap in the agency's strategic goals and objectives this investment is designed to fill. They are the internal and external performance benefits this investment is expected to deliver to the agency (e.g., improve efficiency by 60 percent, increase citizen participation by 300 percent a year to achieve an overall citizen participation rate of 75 percent by FY 2xxx, etc.). The goals must be clearly measurable investment outcomes, and if applicable, investment outputs. They do not include the completion date of the module, milestones, or investment, or general goals, such as, significant, better, improved that do not have a quantitative or qualitative measure.

Agencies must use the following table to report performance goals and measures for the major investment and use the Federal Enterprise Architecture (FEA) Performance Reference Model (PRM). Map all Measurement Indicators to the corresponding "Measurement Area" and "Measurement Grouping" identified in the PRM. There should be at least one Measurement Indicator for each of the four different Measurement Areas (for each fiscal year). The PRM is available at [www.egov.gov](http://www.egov.gov). The table can be extended to include performance measures for years beyond FY 2009.

Performance Information Table								
Fiscal Year	Strategic Goal(s) Supported	Measurement Area	Measurement Category	Measurement Grouping	Measurement Indicator	Baseline	Target	Actual Results
2006	3.2 Enhance the conservation and management of coastal and marine resources to meet America's economic, social, and environmental needs.	Customer Results	Service Accessibility	Access	Percent of counties substantially enabled	FY04 25%	33% of counties	35% of counties substantially enabled.
2006	3.2 Enhance the conservation and management of coastal and marine resources to meet America's economic, social, and environmental needs.	Mission and Business Results	Education	Higher Education	Number of CORS/OPUS Workshops presented to professional groups	FY 05, six workshops presented	Seven workshops	Seven workshops presented
2006	3.2 Enhance the conservation and management of coastal and marine resources to meet America's	Processes and Activities	Productivity and Efficiency	Productivity	Number of new CORS sites added to network	In FY04, 117 new CORS sites were added to the network	150 new CORS sites	168 new CORS sites added

Exhibit 300: NOAA/NOS/ Geodetic Support System (Revision 15)

Performance Information Table								
Fiscal Year	Strategic Goal(s) Supported	Measurement Area	Measurement Category	Measurement Grouping	Measurement Indicator	Baseline	Target	Actual Results
	economic, social, and environmental needs.							
2006	3.2 Enhance the conservation and management of coastal and marine resources to meet America's economic, social, and environmental needs.	Technology	Effectiveness	IT Contribution to Process, Customer, or Mission	Number of CORS data packages downloaded via UFCORS web utility	In CY2005, 640,980 CORS data packages were downloaded.	750,000 CORS data packages	818,743 CORS data packages
2007	3.2 Enhance the conservation and management of coastal and marine resources to meet America's economic, social, and environmental needs.	Customer Results	Service Accessibility	Access	Percent of counties substantially enabled.	FY04, 25%	40%	50.75%
2007	3.2 Enhance the conservation and management of coastal and marine resources to meet America's economic, social, and environmental needs.	Mission and Business Results	Education	Higher Education	Number of CORS/OPUS Workshops presented to professional groups	FY 05, six workshops presented	eight workshops	Twelve Workshops
2007	3.2 Enhance the conservation and management of coastal and marine resources to meet America's economic, social, and environmental needs.	Processes and Activities	Productivity and Efficiency	Productivity	Number of new CORS sites added to network	In FY04, 117 new CORS sites were added to the network	160 new CORS sites	210 new CORS sites
2007	3.2 Enhance the conservation and management of coastal and marine resources to meet America's economic, social, and environmental needs.	Technology	Effectiveness	IT Contribution to Process, Customer, or Mission	Number of CORS data packages downloaded via UFCORS web utility	In CY2005, 640,980 CORS data packages were downloaded.	800,000 data packages	958,652 data packages
2008	3.2 Enhance the conservation and management of coastal and marine resources to meet America's economic, social, and environmental needs.	Customer Results	Service Accessibility	Access	Percent of counties substantially enabled.	FY04, 25%	52%	TBD
2008	3.2 Enhance the conservation and management of coastal and marine resources to meet America's economic, social, and environmental needs.	Mission and Business Results	Education	Higher Education	Number of CORS/OPUS Workshops presented to professional groups	FY 05, six workshops presented	nine workshops	TBD
2008	3.2 Enhance the conservation and management of	Processes and Activities	Productivity and Efficiency	Productivity	Number of new CORS sites added to	In FY04, 117 new CORS sites were added to	170 new CORS sites	TBD

Performance Information Table								
Fiscal Year	Strategic Goal(s) Supported	Measurement Area	Measurement Category	Measurement Grouping	Measurement Indicator	Baseline	Target	Actual Results
	coastal and marine resources to meet America's economic, social, and environmental needs.				network	the network		
2008	3.2 Enhance the conservation and management of coastal and marine resources to meet America's economic, social, and environmental needs.	Technology	Effectiveness	IT Contribution to Process, Customer, or Mission	Number of CORS data packages downloaded via UFCORS web utility	In CY2005, 640,980 CORS data packages were downloaded.	850,000 data packages	TBD
2009	3.2 Enhance the conservation and management of coastal and marine resources to meet America's economic, social, and environmental needs.	Customer Results	Service Accessibility	Access	Percent of counties substantially enabled.	FY04, 25%	62%	TBD
2009	3.2 Enhance the conservation and management of coastal and marine resources to meet America's economic, social, and environmental needs.	Mission and Business Results	Education	Higher Education	Number of CORS/OPUS Workshops presented to professional groups	FY 05, six workshops presented	ten workshops	TBD
2009	3.2 Enhance the conservation and management of coastal and marine resources to meet America's economic, social, and environmental needs.	Processes and Activities	Productivity and Efficiency	Productivity	Number of new CORS sites added to network	In FY04, 117 new CORS sites were added to the network	180 new CORS sites	TBD
2009	3.2 Enhance the conservation and management of coastal and marine resources to meet America's economic, social, and environmental needs.	Technology	Effectiveness	IT Contribution to Process, Customer, or Mission	Number of CORS data packages downloaded via UFCORS web utility	In CY2005, 640,980 CORS data packages were downloaded.	900,000 data packages	TBD

### Section E: Security and Privacy (IT Capital Assets only)

In order to successfully address this area of the business case, each question below must be answered at the system/application level, not at a program or agency level. Systems supporting this investment on the planning and operational systems security tables should match the systems on the privacy table below. Systems on the Operational Security Table must be included on your agency FISMA system inventory and should be easily referenced in the inventory (i.e., should use the same name or identifier).

For existing Mixed-Life Cycle investments where enhancement, development, and/or modernization is planned, include the investment in both the "Systems in Planning" table (Table 3) and the "Operational Systems" table (Table 4). Systems which are already operational, but have enhancement, development, and/or modernization activity, should be included in both Table 3 and Table 4. Table 3 should reflect the planned date for the system changes to be complete and operational, and the planned date for the associated C&A update. Table 4 should reflect the current status of the requirements listed. In this context, information contained within Table 3 should characterize what updates to testing and documentation will occur before implementing the enhancements; and Table 4 should characterize the current state of the materials associated with the existing system.

All systems listed in the two security tables should be identified in the privacy table. The list of systems in the "Name of System"

column of the privacy table (Table 8) should match the systems listed in columns titled "Name of System" in the security tables (Tables 3 and 4). For the Privacy table, it is possible that there may not be a one-to-one ratio between the list of systems and the related privacy documents. For example, one PIA could cover multiple systems. If this is the case, a working link to the PIA may be listed in column (d) of the privacy table more than once (for each system covered by the PIA).

The questions asking whether there is a PIA which covers the system and whether a SORN is required for the system are discrete from the narrative fields. The narrative column provides an opportunity for free text explanation why a working link is not provided. For example, a SORN may be required for the system, but the system is not yet operational. In this circumstance, answer "yes" for column (e) and in the narrative in column (f), explain that because the system is not operational the SORN is not yet required to be published.

Please respond to the questions below and verify the system owner took the following actions:

1. Have the IT security costs for the system(s) been identified and integrated into the overall costs of the investment: Yes

a. If "yes," provide the "Percentage IT Security" for the budget year: 14

2. Is identifying and assessing security and privacy risks a part of the overall risk management effort for each system supporting or part of this investment. Yes

5. Have any weaknesses, not yet remediated, related to any of the systems part of or supporting this investment been identified by the agency or IG? Yes

a. If "yes," have those weaknesses been incorporated into the agency's plan of action and milestone process? Yes

8. Planning & Operational Systems - Privacy Table:					
(a) Name of System	(b) Is this a new system? (Y/N)	(c) Is there at least one Privacy Impact Assessment (PIA) which covers this system? (Y/N)	(d) Internet Link or Explanation	(e) Is a System of Records Notice (SORN) required for this system? (Y/N)	(f) Internet Link or Explanation
NGS Geodetic Support System	No	No	No, because the system does not contain, process, or transmit personal identifying information.	No	No, because the system is not a Privacy Act system of records.

**Details for Text Options:**  
Column (d): If yes to (c), provide the link(s) to the publicly posted PIA(s) with which this system is associated. If no to (c), provide an explanation why the PIA has not been publicly posted or why the PIA has not been conducted.  
Column (f): If yes to (e), provide the link(s) to where the current and up to date SORN(s) is published in the federal register. If no to (e), provide an explanation why the SORN has not been published or why there isn't a current and up to date SORN.  
Note: Working links must be provided to specific documents not general privacy websites. Non-working links will be considered as a blank field.

### Section F: Enterprise Architecture (EA) (IT Capital Assets only)

In order to successfully address this area of the capital asset plan and business case, the investment must be included in the agency's EA and Capital Planning and Investment Control (CPIC) process and mapped to and supporting the FEA. The business case must demonstrate the relationship between the investment and the business, performance, data, services, application, and technology layers of the agency's EA.

1. Is this investment included in your agency's target enterprise architecture? Yes

a. If "no," please explain why?

2. Is this investment included in the agency's EA Transition Strategy? No

a. If "yes," provide the investment name as identified in the Transition Strategy provided in the agency's most recent annual EA Assessment.

b. If "no," please explain why?

System already meets EA targets.

3. Is this investment identified in a completed (contains a target architecture) and approved segment architecture? No

a. If "yes," provide the name of the segment architecture as provided in the agency's most recent annual EA Assessment.

**4. Service Component Reference Model (SRM) Table:**

Identify the service components funded by this major IT investment (e.g., knowledge management, content management, customer relationship management, etc.). Provide this information in the format of the following table. For detailed guidance regarding components, please refer to <http://www.egov.gov>.

Agency Component Name	Agency Component Description	FEA SRM Service Domain	FEA SRM Service Type	FEA SRM Component (a)	Service Component Reused Name (b)	Service Component Reused UPI (b)	Internal or External Reuse? (c)	BY Funding Percentage (d)
CT-GEO-IPO Ability to provide infrastructure for consistent, accurate, and timely positioning.	NGS provides a network of permanently marked points that are used by surveyors as known starting points for their surveys. NGS also supports a network of Continuously Operating Reference Stations (CORS). With CORS, surveyors, GIS/LIS professionals, engineers, scientists, and others can position points with the GPS data collected. The CORS system enables positioning accuracies that approach a few centimeters relative to the National Spatial Reference System, both horizontally and vertically.	Customer Services	Customer Initiated Assistance	Self-Service			No Reuse	100

a. Use existing SRM Components or identify as "NEW". A "NEW" component is one not already identified as a service component in the FEA SRM.

b. A reused component is one being funded by another investment, but being used by this investment. Rather than answer yes or no, identify the reused service component funded by the other investment and identify the other investment using the Unique Project Identifier (UPI) code from the OMB Ex 300 or Ex 53 submission.

c. 'Internal' reuse is within an agency. For example, one agency within a department is reusing a service component provided by another agency within the same department. 'External' reuse is one agency within a department reusing a service component provided by another agency in another department. A good example of this is an E-Gov initiative service being reused by multiple organizations across the federal government.

d. Please provide the percentage of the BY requested funding amount used for each service component listed in the table. If external, provide the percentage of the BY requested funding amount transferred to another agency to pay for the service. The percentages in the column can, but are not required to, add up to 100%.

**5. Technical Reference Model (TRM) Table:**

To demonstrate how this major IT investment aligns with the FEA Technical Reference Model (TRM), please list the Service Areas, Categories, Standards, and Service Specifications supporting this IT investment.

FEA SRM Component (a)	FEA TRM Service Area	FEA TRM Service Category	FEA TRM Service Standard	Service Specification (b) (i.e., vendor and product name)
Extraction and Transformation	Component Framework	Data Management	Database Connectivity	
Extraction and Transformation	Component Framework	Presentation / Interface	Dynamic Server-Side Display	
Extraction and Transformation	Service Access and Delivery	Access Channels	Other Electronic Channels	
Extraction and Transformation	Service Access and Delivery	Access Channels	Web Browser	
Extraction and Transformation	Service Access and Delivery	Access Channels	Web Browser	
Extraction and Transformation	Service Access and Delivery	Service Transport	Service Transport	
Extraction and Transformation	Service Access and Delivery	Service Transport	Service Transport	
Extraction and Transformation	Service Platform and Infrastructure	Database / Storage	Database	
Extraction and Transformation	Service Platform and	Delivery Servers	Web Servers	

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**5. Technical Reference Model (TRM) Table:**

To demonstrate how this major IT investment aligns with the FEA Technical Reference Model (TRM), please list the Service Areas, Categories, Standards, and Service Specifications supporting this IT investment.

FEA SRM Component (a)	FEA TRM Service Area	FEA TRM Service Category	FEA TRM Service Standard	Service Specification (b) (i.e., vendor and product name)
	Infrastructure			
Extraction and Transformation	Service Platform and Infrastructure	Hardware / Infrastructure	Embedded Technology Devices	
Extraction and Transformation	Service Platform and Infrastructure	Hardware / Infrastructure	Local Area Network (LAN)	
Extraction and Transformation	Service Platform and Infrastructure	Hardware / Infrastructure	Servers / Computers	

a. Service Components identified in the previous question should be entered in this column. Please enter multiple rows for FEA SRM Components supported by multiple TRM Service Specifications

b. In the Service Specification field, agencies should provide information on the specified technical standard or vendor product mapped to the FEA TRM Service Standard, including model or version numbers, as appropriate.

6. Will the application leverage existing components and/or applications across the Government (i.e., FirstGov, Pay.Gov, etc)? Yes

a. If "yes," please describe.

The application is part of the Geospatial One Stop Program. Also, customers do not need any specialized software to use the geodetic data.

**Exhibit 300: Part III: For "Operation and Maintenance" investments ONLY (Steady State)****Section A: Risk Management (All Capital Assets)**

Part III should be completed only for investments identified as "Operation and Maintenance" (Steady State) in response to Question 6 in Part I, Section A above.

You should have performed a risk assessment during the early planning and initial concept phase of this investment's life-cycle, developed a risk-adjusted life-cycle cost estimate and a plan to eliminate, mitigate or manage risk, and be actively managing risk throughout the investment's life-cycle.

1. Does the investment have a Risk Management Plan? Yes
  - a. If "yes," what is the date of the plan? 12/14/2007
  - b. Has the Risk Management Plan been significantly changed since last year's submission to OMB? No
  - c. If "yes," describe any significant changes:
2. If there currently is no plan, will a plan be developed? No
  - a. If "yes," what is the planned completion date?
  - b. If "no," what is the strategy for managing the risks?

**Section B: Cost and Schedule Performance (All Capital Assets)**

1. Was operational analysis conducted? Yes
  - a. If "yes," provide the date the analysis was completed. 2/9/2007
  - b. If "yes," what were the results?

Estimated that the CORS system provides the public with an economic benefit at about \$405M in FY2006 based on the fact that a CORS user saves by downloading a CORS data set rather than performing the equivalent field observations. In addition NGS has been able to eliminate 290 FTEs. These FTEs primarily collected and processed traditional geodetic data. For the new CORS system, the comparable data are collected and processed automatically. In FY2007, NGS introduced a new Web based tool, called OPUS-RS, which is expected to increase the usage of the CORS system. OPUS-RS enables its users to submit as little as 15-minutes worth of GPS data to NGS, whereupon NGS computers will automatically process these data with associated data from several CORS sites to determine accurate positional coordinates for the location where the user collected his/her GPS data. In August 2007, OPUS-RS successfully processed over 4,300 data sets at an estimated value of \$600 per data set.

- c. If "no," please explain why it was not conducted and if there are any plans to conduct operational analysis in the future:

The Operational Analysis will be completed by February 15, 2007.c benefit at about \$405M in FY2006 based on the fact that a CORS user saves by downloading a CORS data set rather than performing the equivalent field observations. In addition NGS has been able to eliminate 290 FTEs. These FTEs primarily collected and processed traditional geodetic data. For the new CORS system, the comparable data are collected and processed automatically.

2. Complete the following table to compare actual cost performance against the planned cost performance baseline. Milestones reported may include specific individual scheduled preventative and predictable corrective maintenance activities, or may be the total of planned annual operation and maintenance efforts).

- a. What costs are included in the reported Cost/Schedule Performance information (Government Only/Contractor Only/Both)? Contractor and Government

- 2.b Comparison of Plan vs. Actual Performance Table:

Comparison of Plan vs. Actual Performance Table

Milestone Number	Description of Milestone	Planned		Actual		Variance	
		Completion Date (mm/dd/yyyy)	Total Cost(\$M)	Completion Date (mm/dd/yyyy)	Total Cost(\$M)	Schedule (# days)	Cost(\$M)
1	Maintenance of System	9/30/2003	\$0.934	9/30/2003	\$0.934	0	\$0
2	Deployment of 50 new stations	9/30/2003	\$0.06	9/30/2003	\$0.06	0	\$0
3	Maintenance of System	9/30/2004	\$1.5	9/30/2004	\$1.5	0	\$0
4	Maintenance of System	9/30/2005	\$1.715	9/30/2005	\$1.715	0	\$0
5	Maintenance of System	9/30/2006	\$1.53	9/30/2006	\$1.53	0	\$0
6	Maintenance of System	9/30/2007	\$1.625	9/30/2007	\$1.625	0	\$0
7	Maintenance of System	9/30/2008	\$1.72				
8	Maintenance of System	9/30/2009	\$1.815				